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PHOTOGRAPHIC INTERPRETATION REPORT

25X1

SPECIAL-PURPOSE AIRCRAFT AT SOVIET AVIATION AIRFIELDS IN THE USSR, EAST EUROPE, AND MONGOLIA (S)

Top Secret

PIR-036/78 AUGUST 1978

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| SPECIA | | IRCRAFT AT SOVIET AV EAST EUROPE, AND MO | |
| | | ABSTRACT | |
| (AN-10) an 8) helicopte airfields are lia. It is p | d CURL (AN-26) a ers identified on K in the USSR, | ovides an imagery-derived analy ircraft and special-purpose HOC EYHOLE imagery at 35 Sovi Czechoslovakia, Poceport that these aircraft are u | OK (MI-6) and HIP C (MI- et aviation airfields. These land, Hungary, and Mongo- |
| 2. (U graphs. | This report cont | ains a location map, a table, | and four annotated photo- |
| | | BASIC DESCRIPTION | |
| USSR, Eas Table 1 lis | t Europe, and Mor | es the locations of the 35 Sovingolia where special-purpose ai military district or country and ach. | rcraft have been identified. |
| at six Sovi from the s on satellite mounted or on the fuse | et aviation airfield tandard CAT by imagery: at leas the fuselage forwa | urpose CAT aircraft was identified in the USSR (Table 1). The the addition of the following to one very-high-frequency (VH and of the wing, two VHF blades, and one dorsally mounted withing (Figure 2). | special-purpose CAT differs items of equipment visible IF) blade antenna dorsally antennas dorsally mounted |
| at 19 Sovie purpose CU equipment on the fuse the fuselag | aviation airfields RL differs from the visible on satellite lage forward of the | irpose CURL aircraft was identified the USSR, Hungary, and Pole standard CURL by the additimagery: two offset VHF blade wing, two offset VHF blade and one unidentified antenna/p3). | land (Table 1). The specialion of the following items of antennas dorsally mounted tennas dorsally mounted on |
| agery at 22 vakia, and HOOK by two unider VHF blade | Soviet aviation at Mongolia (Table the addition of the tified pods mount antennas in an X | arpose HOOK helicopter was iderfields in the USSR, 1). The special-purpose HOOF following items of equipment ted on the lower starboard side-shaped pattern (two dorsally t forward of the horizontal stability. | Hungary, Czechoslo- differs from the standard visible on satellite imagery: de of the fuselage and four mounted and two ventrally |
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| | | * 1 * | |

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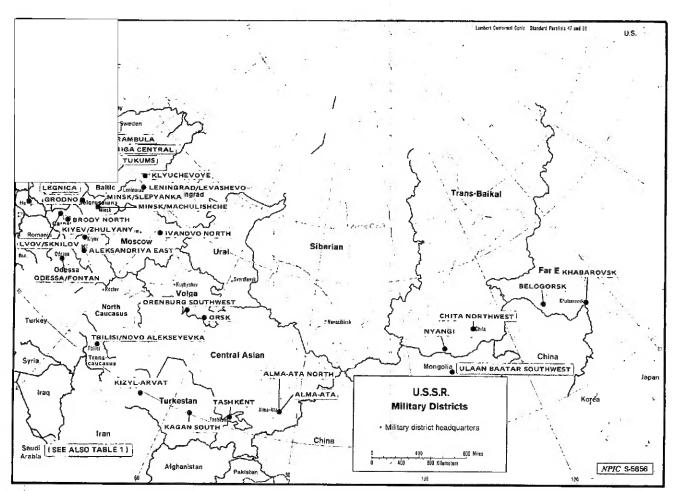


FIGURE 1. LOCATIONS OF SOVIET AVIATION AIRFIELDS HOUSING SPECIAL-PURPOSE AIRCRAFT

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Table 1. Airfields in the USSR, East Europe, and Mongolia Which House Special-Purpose Aircraft, Arranged by Military Association

This table in its entirety is classified TOP SECRET RUFF UMBRA

| | BE | Tac Air | Types of Special-Purpose Aircraft Deployed | | | |
|--------------------------|--|--|---|---|---|---|
| , | | Army¹ | CURL | ноок | CAT | HIP C |
| Riga Central | | 15th | Yes | No | No | No |
| Riga/Rambula | | 15th | Yes | No | No | No |
| Tukums | | 15th | Yes* | No | No | No |
| Grodno | | 26th | No | Yes | No | No |
| Minsk/Machulishche | | 26th | Yes | No | Yes | No |
| Minsk/Slepyanka | | 26th | No | Yes | No | No |
| Brody North | | 14th | No | Yes | No | No |
| Lvov/Sknilov | | 14th | No | Yes | Yes ** | No |
| Alma-Ata | | 73d | Yes | No | Yes | No |
| Alma-Ata North | | 73d | Yes | Yes | No | Yes |
| Belogorsk | | 1st | No | Yes | No | Yes |
| Khabarovsk | | 1st | Yes | Yes | Yes | No |
| Aleksandriva East | | 17th | No | Yes | No | No |
| Kiyev/Zhulyany | | 17th | Yes | Nο | No | No |
| Klyuchevove | | 76th | No | Yes | No | No |
| Leningrad/Levashevo | | 76th | Yes | No | No | No |
| Ivanovo North | | MDAV*** | Yes* | No | No | No |
| Odessa/Fontan | | 5th | Yes | Yes | Yes** | No |
| Chita Northwest | | 23d | Yes | Yes | Yes | No |
| Nyangi | | 23d | Yes | No | No | No |
| Ulaan Baatar Southwest | | 23d | No | Yes | No | No |
| Tbilisi/Novo Alekseyevka | | 34th | Yes | Yes | No | No |
| Kagan South | | 6th | No | Yes | No | No |
| Kizyl-Arvat | | 6th | No | Yes* | No | No |
| Tashkent | | 6th | No | Yes | No | No |
| Orenburg Southwest | | MDAV | Yes | No | No | No |
| Orsk | | MDAV | Yes | No | No | No |
| Milovice | | SAF*** | No | Yes | No | No |
| | Tukums Grodno Minsk/Machulishche Minsk/Slepyanka Brody North Lvov/Sknilov Alma-Ata Alma-Ata North Belogorsk Khabarovsk Aleksandriya East Kiyev/Zhulyany Klyuchevoye Leningrad/Levashevo Ivanovo North Odessa/Fontan Chita Northwest Nyangi Ulaan Baatar Southwest Tbilisi/Novo Alekseyevka Kagan South Kizyl-Arvat Tashkent Orenburg Southwest | Tukums Grodno Minsk/Machulishche Minsk/Slepyanka Brody North Lvov/Sknilov Alma-Ata Alma-Ata North Belogorsk Khabarovsk Aleksandriya East Kiyev/Zhulyany Klyuchevoye Leningrad/Levashevo Ivanovo North Odessa/Fontan Chita Northwest Nyangi Ulaan Baatar Southwest Tbilisi/Novo Alekseyevka Kagan South Kizyl-Arvat Teshkent Orenburg Southwest | Tukums 15th Grodno 26th Minsk/Machulishche 26th Minsk/Slepyanka 26th Brody North 14th Lvov/Sknilov 14th Alma-Ata 73d Alma-Ata North 73d Belogorsk 1st Khabarovsk 1st Aleksandriya East 17th Kiyev/Zhulyany 17th Klyuchevoye 76th Leningrad/Levashevo 76th Ivanovo North MDAV*** Odessa/Fontan 5th Chita Northwest 23d Nyangi 23d Ulaan Baatar Southwest 23d Tbilisi/Novo Alekseyevka 34th Kagan South 6th Kizyl-Arvat 6th Tashkent 6th Orenburg Southwest MDAV*** | Tukums Grodno Grodno Minsk/Machulishche Minsk/Slepyanka Brody North Lvov/Sknilov Alma-Ata Alma-Ata Alma-Ata North Belogorsk Khabarovsk Aleksandriya East Kiyev/Zhulyany Kiyuchevoye Leningrad/Levashevo Ivanovo North Odessa/Fontan Chita Northwest Nyangi Ulaan Baatar Southwest Kagan South Kizyl-Arvat Tashkent Gesh No 26th No 26th No 14th No 15th Yes Aleksandriya East 17th No 17th Yes MDAV*** Yes Chita Northwest 123d No Tbillisi/Novo Alekseyevka Kagan South Kizyl-Arvat Tashkent Gth No Orenburg Southwest MDAV*** Yes | Tukums 15th Yes' No Grodno 26th No Yes No Minsk/Machulishche 26th Yes No Yes Minsk/Slepyanka 26th No Yes No Yes Brody North 14th No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes No Yes No </td <td>Tukums 15th Yes' No No Grodno 26th No Yes Yes No No Yes No No Yes No No No Yes No No Yes No No No No No No Yes No No</td> | Tukums 15th Yes' No No Grodno 26th No Yes Yes No No Yes No No Yes No No No Yes No No Yes No No No No No No Yes No No |

^{*}Not usually seen here; not headquarters

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^{***}MDAV-- Military District Aviation; SAF--Soviet Air Force.



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- 7. (TSR) The special-purpose HIP C helicopter was identified on KEYHOLE imagery at two Soviet aviation airfields in the USSR (Table 1). The special-purpose HIP C differs from the standard HIP C by the addition of the following items of equipment visible on satellite imagery: a CLOTHES HORSE antenna dorsally mounted on the tail boom just aft of the fuselage, a ventrally mounted V-shaped antenna/antenna mount just forward of the horizontal stabilizer, and two unidentified boxes, one mounted on each side of the fuselage where the rocket pods are often mounted (Figure 5).
- 8. (TSU) The deployment of these special-purpose aircraft at Military District Headquarters and/or Tactical Air Army Headquarters (exceptions are noted in Table 1) suggests that these aircraft will serve as airborne command posts/radio-relay platforms in support of Military District Headquarters, Tactical Air Armies, and Tactical Air Signal Regiments in the event of hostilities. If these aircraft are used as airborne command posts/radio-relay platforms, it would upgrade the Soviet airborne strike capability and reduce the vulnerability of Soviet command communications with forward air controllers serving the ground units.¹

REFERENCES

| IMAGERY | |
|--|----------------------|
| (TSR) KEYHOLE imagery acquired from was used in the preparation of this report. | 25X1 25X1 |
| DOCUMENT | |
| | 25X1 |
| REQUIREMENT | |
| Project 130011NE | |
| (S) Comments and queries regarding this report are welcome. They may be directed to Warsaw Pact Forces Division, Imagery Exploitation Group, | 25X1 25X1 25X1 |

List of Conversion Factors by Classification

| UNITS OF LENG | HT | NG | LE | F | 0 | rs | n | N | U | |
|---------------|----|----|----|---|---|----|---|---|---|--|
|---------------|----|----|----|---|---|----|---|---|---|--|

UNITS OF MASS

| | | | | | - | |
|---|--------------------|-------------|---------------------------|----------------|-------------|------------------------------|
| | IF YOU HAVE | MULTIPLY BY | TO OBTAIN | IF YOU HAVE | MULTIPLY BY | TO OBTAIN |
| | MILLIMETERS | 0.0394 | INCHES | KILOGRAMS | 2.2046 | POUNDS(AVDIR.) |
| | CENTIMETERS | 0.3937 | INCHES | POUNDS(AVOIR.) | 0.4536 | KILOGRAMS |
| | INCHES | 25.4000 | MILLIMETERS | SHORT TONS | 0.9072 | METRIC TONS |
| | INCHES | 2.5400 | CENTIMETERS | METRIC TONS | 1.1023 | SHORT TONS |
| | FEET | 0.3048 | METERS | METRIC TONS | 0.9842 | LONG TONS |
| | FEET | 0.0003 | KILOMETERS : | LONG TONS | 1.0160 | METRIC TONS |
| | YARDS | 0.9144 | METERS | | 7.0.00 | METHIC TORS |
| | METERS | 3.2808 | FEET | • | | |
| | METERS | 0.0005 | MILES(NAUTICAL) | | | |
| | METERS | 1.0936 | YARDS | U | NITS OF VOL | UME - |
| | KILOMETERS | 3280.8400 | FEET | | | |
| | KILOMETERS | 0.6214 | MILES(STATUTE) | IF YOU HAVE | MULTIPLY BY | TO OBTAIN |
| | KILOMETERS | 0.5400 | MILES(NAUTICAL) | LITERS | 0.2642 | GALLONS |
| | MILES(STATUTE) | 1.6093 | KILOMETERS | LITERS | 0.0063 | |
| • | MILES(NAUTICAL) | 6076.1154 | FEET | LITERS | 0.0010 | BARRELS(POL) |
| | MILES(NAUTICAL) | 1.8520 | KILOMETERS | GALLONS | ~ 3.7854 | CUBIC METERS LITERS |
| | MILES(NAUTICAL) | 1852.0000 | METERS . | GALLONS | 10.1337 | 10.0 |
| | | | | GALLONS | 0.0238 | CUBIC FEET |
| | | | | GALLONS | 0.0038 | BARRELS(POL) |
| | | | | BUSHELS | 0.0352 | CUBIC METERS |
| | ι | JNITS OF AR | EA | CUBIC FEET | 7.4805 | CUBIC METERS GALLONS |
| | IF YOU HAVE | MULTIPLY BY | TO OBTAIN | CUBIC FEET | 0.1781 | |
| | SQUARE CENTIMETERS | 0.1550 | SQUARE INCHES | CUBIC FEET | 0.0283 | BARRELS(POL) CUBIC METERS |
| | SQUARE INCHES | 6.4516 | SQUARE CENTIMETERS | CUBIC YARDS | 0.7646 | CUBIC METERS |
| | SQUARE FEET | 0.0929 | SQUARE METERS | BARRELS(POL) | 158.9873 | LITERS |
| | SQUARE YARDS | 0.8361 | SQUARE METERS | BARRELS(POL) | 42.0000 | GALLONS |
| | SQUARE METERS | 10.7639 | SQUARE FEET | BARRELS(POL) | 5.6146 | CUBIC FEET |
| | SQUARE METERS | 1.1960 | SQUARE YARDS | BARRELS(POL) | 0.1590 | CUBIC METERS |
| | SQUARE METERS | 1.0000 | CENTARES | CUBIC METERS | 1000,0000 | LITERS |
| | SQUARE METERS | 0.0002 | ACRES | CUBIC METERS | 264,1721 | GALLONS |
| | SQUARE METERS | 0.0002 | | CUBIC METERS | 35,3147 | CUBIC FEET |
| | ACRES | 4046.8564 | HECTARES SQUARE METERS | CUBIC METERS | 28.3776 | BUSHELS |
| | ACRES | 0.4047 | HECTARES | CUBIC METERS | 6.2898 | BARRELS(POL) |
| | HECTARES | 10000,0000 | SQUARE METERS | CUBIC METERS | 1.3080 | CUBIC YARDS |
| | | 10000.000 | PROMUE INIE! EU9 | | 1.0000 | CUBIC TANUS |

ACRES

2.4711

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